19-03; 7:58AM;Ernest D. Buff

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# FAX COVER SHEET

Date: From: September 19, 2003 Roger H. Criss

0147-1

Client/Matter #: Re:

Serial No. 09/828,330, Filed April 6, 2001

# Pages sent (including cover): 18

RECIPIENT	- FIRM	CC:	FAX NUMBER
Examiner C. Nichols	USPTO - Art Unit 1647		703-872-9307

#### Message:

#### Dear Dr. Nichols:

Enclosed for your information is a copy of the Amendment after Final Rejection that has been mailed today to the USPTO. The reason that the official copy is being mailed is because a check was required for the extension of time. However, I thought that you would like a copy at this time.

Should there be any questions, please let me know,

Respectfully submitted,

Roger H. Criss Reg. No. 25,570

Enclosure

Confidentiality. Note:

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Serial No. 09/828,330
Amendment after Final Rejection dated September 19, 2003
Reply to Final Rejection dated June 10, 2003

#### Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### Claims 1-15 (canceled)

Claim Locurrently amended): A method for the systematic, multi-tiered treatment of coronary artery disease by delivery of a formulation comprising one or more therapeutic growth factor proteins, the method comprising the steps of:

- a.) selecting a patient displaying symptoms of acute coronary artery disease;
- b.) administrating at least one close of an effective amount of a first therapeutic
  growth factor protein formulation <u>comprising a growth factor protein being selected</u>
  from the group consisting of FGF-1, FGF-2, VEGF, and mixtures thereof, by
  inhalation therapy;
- c.) monitoring one or more clinical indicators of acute coronary artery disease;
- d.) determining, based on monitoring the one or more clinical indicators of coronary artery disease, whether an additional dose of a therapeutic growth factor protein formulation is necessary;
- e.) depending on the results of the step d.), administering one or more additional closes of a second growth factor protein formulation <u>comprising a growth factor protein</u> being selected from the group consisting of FGF-1, FGF-2, VEGF, and mixtures thereof, and
- f.) repeating steps c.) through c.) until there is a clinical indication of amelioration of the symptoms of acute coronary artery disease in the patient, or until there is a contraindication to continued treatment.

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Claim M (currently amended): The method of claim M [[.(New)]], wherein the second growth factor protein is administered by a method of delivery more invasive than the method of delivery utilized for administration of the first growth factor protein formulation.

Claim 16 (currently amended): The method of claim 16 ((.(New))], wherein the second growth factor protein is administered by the same method of delivery utilized for administration of the previous dose.

Claim 14 (currently amonded): The method of claim 14 [[. (New)]], wherein the one or more clinical indicators of acute coronary artery disease are selected from the group consisting of levels of CPK-MB, electrocardiogram tracings, and chest pain.

### Claim 20 (canceled)

Claim (currently amended): The method of claim [[. (New)]], wherein the symptoms of acute coronary artery disease are brought on by a condition selected from the group consisting of myocardial infarct, unstable angina, and acute anginal attack.

Claim 2 (currently amended): The method of claim [[.(New]], wherein the method of delivery of the second growth factor protein formulation is selected from the group consisting of oral inhalation, intravenous administration, intracoronary infusion, intraperioardial injection, myocardial introduction via catheter during cardiac catherization, and direct myocardial injection.

Claim 1 (currently amonded): The method of claim 1 [[.(New)]], wherein the growth factor formulation administered in step e.) and subsequent steps is the same as the growth factor formulation administered initially.

Claim (currently amended): The method of claim 4[[.(New)]], wherein the growth factor formulation administered in step e.) and subsequent steps is different from the growth factor formulation administered in finally.

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#### Claims 25-34 (canceled)

- Claim Currently amended): A method for the systematic, multi-tiered treatment of chronic coronary artery disease by delivery of a formulation comprising one or more therapeutic growth factor proteins, the method comprising the steps of:
- a.) selecting a patient displaying symptoms of chronic coronary artery disease;
- b.) administrating at least one dose of an effective amount of a first therapeutic growth factor protein formulation <u>comprising a growth factor protein being selected</u> from the group consisting of FGF-1. FGF-2. VEGF, and mixtures thereof, by inhalation therapy;
- c.) monitoring one or more clinical indicators of chronic coronary artery disease;
- d.) determining, based on monitoring the one or more clinical indicators of chronic coronary artery disease, whether an additional dose of a therapeutic growth factor protein formulation is necessary;
- c.) depending on the results of the step d.), administering one or more additional doses of a second growth factor protein formulation <u>comprising a growth factor protein</u> <u>being selected from the group consisting of FGF-1, FGF-2, VEGF, and mixtures</u> thereoft and
- f.) repeating steps c.) through e.) until there is a clinical indication of amelioration of the symptoms of chronic coronary artery disease in the patient, or until there is a contraindication to continued treatment.
- Claim 16 (currently amended): The method of claim 36 [[.(New)]], wherein the amelioration of symptoms is achieved as a result of a clinically significant amount of angiogenesis.

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Claim \( \frac{1}{2}\) (currently amended): The method of claim \( \frac{1}{2}\) [[.(New)]], wherein the second growth factor protein formulation is administered by the same method of delivery utilized for the administration of the previous dose.

Claim 35 (currently amended): The method of claim 35 [[.(New)]], wherein the second growth factor protein formulation is administered by a method of delivery more invasive than the method of delivery utilized for the administration of the first growth protein formulation.

Claim. 30 (currently amended): The method of claim. 30 [[.(New)]], wherein the one or more clinical indicators of chronic coronary artery disease are selected from the group consisting of frequency, and intensity of anginal symptoms, myocardial perfusion, electrocardiogram tracings, scores on quantitative angina scales, and angiography.

Claim 40 (canceled)

Claim (currently amended): The method of claim [Method of claim [Method of delivery of the second growth factor protein formulation is selected from the group consisting of oral inhalation, intravenous administration, intracoronary infusion, intrapericardial injection, myocardial introduction via catheter during cardiac eatherization, introduction during transmyocardial revascularization and direct myocardial injection.

Claim (46 (currently amended): The method of claim (45 [[.(New))]], wherein the growth factor formulation administered in step e.) and subsequent steps is the same as the growth factor formulation administered initially.

Claim of (currently amended): The method of claim of [[.(New)]], wherein the growth factor formulation administered in step e.) and subsequent stops is different from the growth factor formulation administered initially.

Claims 44-53 (canceled)

Claim M (new): The method of claim M, wherein each of said first and second therapeutic growth factor protein formulations comprise FGF-1 and/or FGF-2.

Claim of (new): The method of claim of, wherein each of said first and second therapeutic growth factor protein formulations comprise VEGF.

Claim 56 (new): The method of claim 35, wherein each of said first and second therapeutic growth factor protein formulations comprise FGF-1 and/or FGF-2.

Claim 57 (new): The method of claim 58, wherein each of said first and second therapeutic growth factor protein formulations comprise VEGF.

Claim so (new): The method of claim so, wherein at least one of said first and second therapeutic growth factor protein formulations is a dry powder formulation.

Claim Sonow): The method of claim 16, wherein at least one of said first and second therapeutic growth factor protein formulations is a liquid acrosol formulation.

Claim #6 (new): The method of claim #6, wherein the acute symptoms of heart disease are brought on by reperfusion injury.

Claim of (new): The method of claim of, wherein the reperfusion injury is induced by a procedure selected from the group consisting of thrombolytic therapy, bypass surgery and ancioolasty.